
! SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier
Name of product

PSGi GeogROUT 3 B2-3-Komponente

1.2. Relevant identified uses of the substance or mixture and uses advised against
 No information available.

1.3. Details of the supplier of the safety data sheet
Manufacturer/distributor

 TPH Bausysteme GmbH
 Nordportbogen 8, D-22848 Norderstedt
 Phone +49 (0)40 / 52 90 66 78-0, Fax +49 (0)40 / 52 90 66
 78-78
 E-Mail info@tph-bausysteme.com
 Internet www.tph-bausysteme.com
Advice

 E-mail (competent person):
sdb-info@tph-bausysteme.com
1.4. Emergency telephone number
Emergency advice

 GIZ-Nord
 Phone +49 (0)551 / 19240

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Ox. Sol. 3	H272	
Acute Tox. 4	H302	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
STOT SE 3	H335	

Hazard statements for physical hazards

H272 May intensify fire; oxidiser.

Hazard statements for health hazards

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Signal word

Danger

Hazard statements for physical hazards

H272 May intensify fire; oxidiser.

Hazard statements for health hazards

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Precautionary Statements
Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352	IF ON SKIN: Wash with plenty of water/.... .
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311	Call a POISON CENTER/doctor/.... .

Hazardous ingredients for labeling

disodium-peroxodisulphate

2.3. Other hazards

No information available.

SECTION 3: Composition/ information on ingredients
3.1. Substances

not applicable

3.2. Mixtures
Description

Hardener

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
7775-27-1	231-892-1	disodium-peroxodisulphate	50 - 100	Ox. Sol. 3, H272 / Acute. Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Resp. Sens. 1, H334 / Skin. Sens. 1, H317

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
Adhere to personal protective measures when giving first aid.
Take away from danger area and lay down affected person.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.
In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.
Consult a doctor if skin irritation persists.

In case of eye contact

Medical treatment by eye specialist.
In case of contact with eyes rinsing with plenty of lukewarm water carefully and seek for medical treatment.

In case of ingestion

Do not give liquid drinks.
Do not induce vomiting.
Call for a doctor immediately.
Rinse out mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

Asthmatic complaints
Allergic symptoms

4.3. Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)
Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam
Dry fire-extinguishing substance
Carbon dioxide
water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.
In the event of fire the following can be released:
Sulfur oxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.
Wear full protective clothing.

Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep people away and stay on the upwind side.

Avoid dust formation.

Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up mechanically and send for disposal.

Additional Information

Informations for personal protective equipment see chapter 8.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust.

Do not return residues to the storage containers.

General protective measures

Avoid contact with eyes and skin

Do not inhale dust.

Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Substance/product in the dry state supports fire.

Keep at a distance of combustible materials.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Prevent penetration into the ground.

Do not use metallic container.

Advice on storage compatibility

Do not store with combustible materials.

Do not store together with metals.

Further information on storage conditions

Protect from direct solar radiation.
 Protect from wetness.
 Protect of heat.
 Product is hygroscopic.
 Protect from contamination.

Information on storage stability

Storage time: 12 months.

Storage group 5.1B

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Additional advice

no

8.2. Exposure controls
Respiratory protection

If ventilation insufficient, wear respiratory protection.

Particle filter P2

Hand protection

Synthetic rubber gloves

Eye protection

tightly fitting goggles

Other protection measures

protective overalls

Appropriate engineering controls

no

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Appearance	Colour	Odour
crystalline	yellowish	odourless

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 4,3	20 °C	10 g/l		
Acid number		not applicable			
boiling point		not applicable			

	Value	Temperature	at	Method	Remark
melting point	> 180 °C				
Flash point	not applicable				
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature	no				
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				
Vapour pressure	not applicable				
Relative density	ca. 2,59 g/cm ³	20 °C			
Bulk density	ca. 1,15 g/cm ³				
Vapour density	not applicable				
Solubility in water	not determined	20 °C			soluble
Solubility/other			not determined		
Partition coefficient n-octanol/water (log P O/W)	not applicable				
Decomposition temperature	not determined				
Viscosity dynamic	not applicable				
Viscosity kinematic	not applicable				
Solvent separation test	not applicable				
Solvent content	no				
Water content	not determined				
Solids content	100 %				
Combustion value	No data available				

Oxidising properties
yes

Explosive properties
no

9.2. Other information
Product effects hygroscopic.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

None, if handled according to order.

10.5. Incompatible materials

Substances to avoid

Reactions with acids.

Reactions with impurities.

Reactions with reducing agents.

Reactions with organic substances.

Reactions with various metals.

Reactions with alkalies.

10.6. Hazardous decomposition products

Sulphur trioxide

Sulphurous oxides (SOx)

Sulphuric acid

Oxygen

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	920 mg/kg	rat		Information concerns to main component.
LD50 acute dermal	> 10000 mg/kg	rat		

	Value/Validation	Species	Method	Remark
LC50 acute inhalation	> 5,1 mg/l (4 h)	rat		
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	sensitizing			
Sensitization respiratory system	sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subacute Toxicity	not determined			
Subchronic Toxicity	not determined			
Chronic Toxicity	not determined			
Mutagenicity	not determined			
Reproduction-Toxicity	not determined			
Carcinogenicity	not determined			

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

Toxicity test (Additional information)

no

Experiences made from practice

Frequent persistent contact with the skin may cause skin irritation.

Additional information

The declarations of toxicology refer to main component.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 323 mg/l (96 h)	Poecilia reticulata		
Daphnia	EC50 357 mg/l (24 h)	Daphnia magna		
Algae	EC10 33 mg/l (96 h)	Scenedesmus quadricauda		
Bacteria	EC10 1000 mg/l (24 h)	Escherichia coli		

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability	not determined			
Biological degradability	not determined			
Degradability	not determined			
Biological eliminability	not determined			
Degradability according to WRMG	not determined			

12.3. Bioaccumulative potential

not determined

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

Behaviour in sewage plant

not determined

Respiration inhibition of activated sludge

	Value	Method	Remark
EC 50	not determined		

Additional ecological information

	Value	Method	Remark
OC	No data available		

	Value	Method	Remark
COD	No data available		
BOD	No data available		
AOX	No data available		

Contains following heavy metals and compounds of the 76/464/EWG

no

General regulation

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The information to ecology refers to main component.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1505	1505	1505
14.2. UN proper shipping name	SODIUM PERSULPHATE (disodium-peroxodisulphate)	SODIUM PERSULPHATE (disodium-peroxodisulphate)	Sodium persulphate (disodium-peroxodisulphate)
14.3. Transport hazard class(es)	5.1	5.1	5.1
14.4. Packing group	III	III	III
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Land and inland navigation transport ADR/RID

Hazard label(s) 5.1

tunnel restriction code E

Classification code O2

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Other regulations, restrictions and prohibition regulations

ZH 1/118 "Working with health hazard substances (for the workers) (M 050)"

MAL-Code: 3-5 (Denmark)

ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"

Water hazard class 1 Mixture-WGK

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.0

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.